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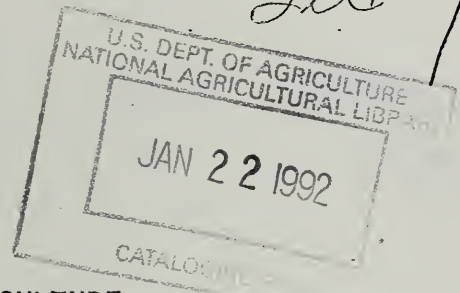
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COOPERATIVE AGREEMENT

between

IOWA GEOLOGICAL SURVEY

and the

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

Relative to: Gathering water quality and physical data in Big Springs Hatchery area of the Northeast Iowa Rivers Basin.

Authority: Public Law 83-566, 68 Stat. 666 (16 USC 1006).
Public Law 74-46, 49 Stat. 163 (16 USC 590-a-f).

THIS AGREEMENT, made and entered into this 26th day of August, 1981 by and between the Iowa Geological Survey, State of Iowa, (hereinafter referred to as the "IGS") and the United States of America, acting by and through the Soil Conservation Service of the United States Department of Agriculture (hereinafter referred to as the "SCS").

THE SCS, in carrying out its assigned responsibilities under applicable legislation, has need for certain information that may be obtained as a result of this cooperation; has certain resources available, but does not have sufficient resources available to obtain the desired information by the time it will be needed.

THE IGS, in performance of special functions assigned to it, has need for certain environmental and related resource data that is presently unavailable; has certain resources available and sufficient expertise for obtaining such data and desires to assist the SCS in development of the needed information.

THEREFORE, both the IGS and the SCS deem it mutually advantageous to cooperate in this undertaking, and hereby agree as follows:

I. THE IGS AGREES:

- A. To provide an analysis and evaluation of the ground water system at Big Springs Fish Hatchery in Clayton County, particularly as it is related to ground water quality, land use, and the potential effect of soil conservation practices. This will be done through the following:

<u>Work Item</u>	<u>Product</u>	<u>Reimbursement</u>
1. Review of existing data resulting from earlier geologic and hydrogeologic studies; studied and unstudied wells in the area; and hydrologic and meteorological data.	Hydrologic and weather data; well records	\$1,000.00



	<u>Work Item</u>	<u>Product</u>	<u>Reimbursement</u>
Done	2. Determination of groundwater basin affecting Big Springs and compilation of piezometric map of water levels in accessible wells (about 80).	Map	\$2,000.00
Done	3. Produce geologic map of the basin.	Map	500.00
Done	4. Establishment of control network consisting of Big Springs and about 14 wells from which to measure water levels and evaluate water quality.	Map	2,000.00
	5. Determine groundwater flow patterns using dye tracing.	Map and report	3,000.00
	6. Sample the control network monthly plus during three runoff events (15 times) for water quality and water level.	Report	4,000.00 7460.40
	7. Estimate the role of sinkholes to the quantity and quality of water discharging at Big Springs both during rainfall events and throughout the year.	Report	1,500.00
Done	8. Construction of a land use map of the basin from high altitude CIR photography at a scale of 1:24,000.	Map	1,000.00
	9. Digitize land use map.	Map	500.00
	10. Construct land use map of basin from two years of Landsat data (early and mid 1970's)	Map	4,000.00
	11. Digitize sink hole locations (about 400).	Map	500.00
	12. Determine and digitize watersheds of significant size draining to sinkholes (about 40-50).	Map	500.00
	13. Digitize location and type of soil conservation practices including: strip cropping, terracing, contour farming, dams.	Map	500.00
	14. Digitize geologic map.	Map	500.00
	15. Digitize locations of control network wells.	Map	500.00
	16. Digitize soil survey for the basin.	Map	3,000.00

<u>Work Item</u>	<u>Product</u>	<u>Reimbursement</u>
17. Estimate average annual soil erosion for Big Springs basin.	Report	\$2,000.00
18. Estimate present sediment yield affecting water quality of the control network and Big Springs.	Report	1,000.00
19. Evaluate the effectiveness of alternative soil conservation practices recommended by the SCS on water quality of the control network and Big Springs.	Report	2,000.00

B. To make the results of these activities available to the SCS in preliminary form.

C. To provide assistance in interpreting these results for the application of these studies to subsequent implementation of soil conservation practices.

D. To provide the necessary supervision of these studies.

E. To absorb from its own funds that portion of the estimated costs of this undertaking not covered by the amounts to be reimbursed by the SCS.

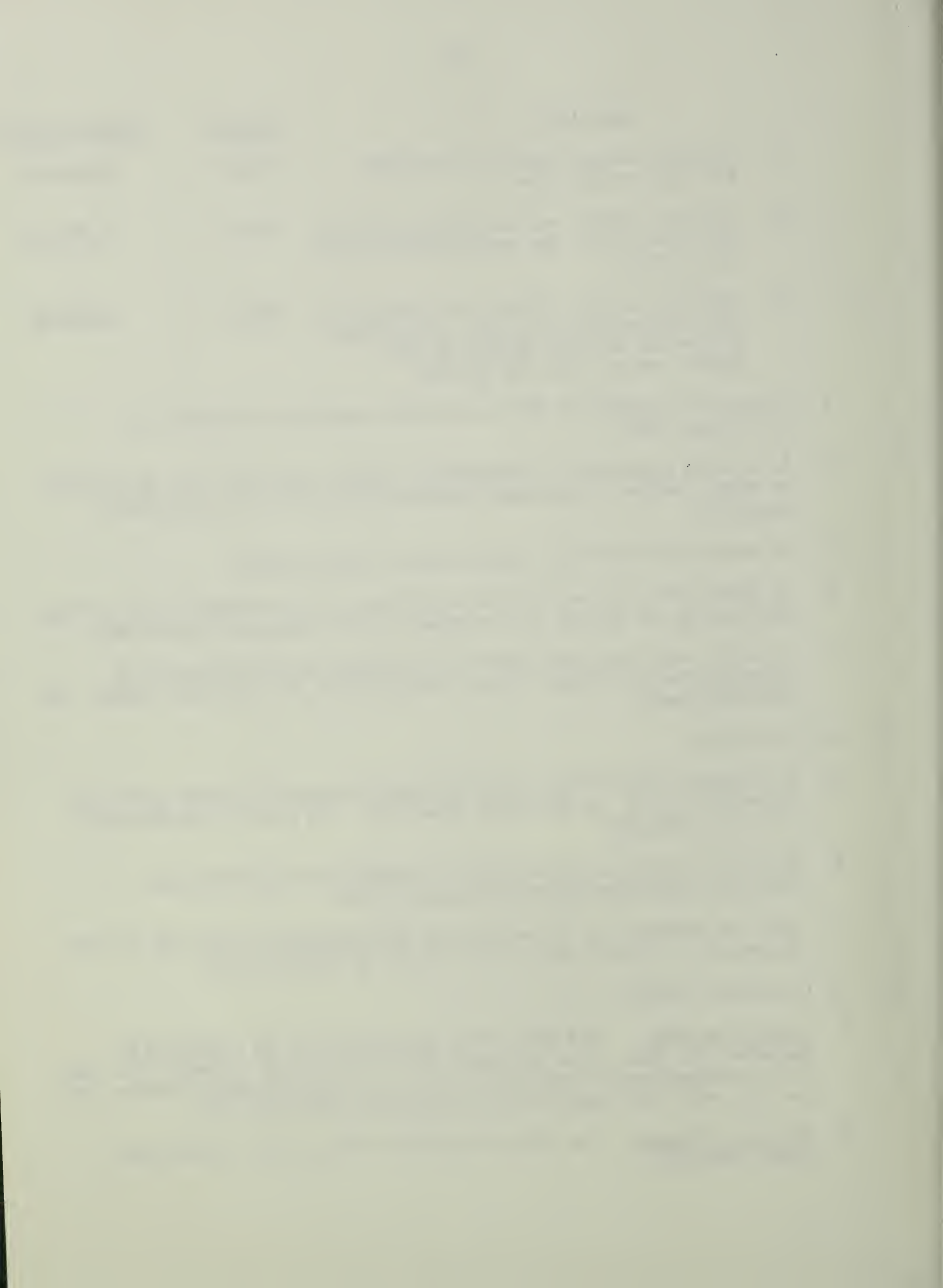
F. To comply with the Equal Opportunity clause, the Certification of Nonsegregated Facilities clause, and the Clean Air and Water clause, all attached hereto.

II. THE SCS AGREES:

- A. To reimburse the IGS upon completion and acceptance of each work item described in 1.A. at the rates specified. The cost to the SCS shall not exceed \$30,000.
- B. To provide technical consultation as needed for the orderly and efficient development of the assessment data.
- C. That the signature of the authorized representative of the SCS on this agreement is official notice for the IGS to commence work.

III. IT IS MUTUALLY AGREED:

- A. Completion Date - Work under this agreement is to be completed by December 31, 1982. This agreement will terminate on September 30, 1981. This agreement may be renewed by exchange of correspondence between the parties until the intent of the project has been completed.
- B. Method of Payment - The IGS will bill the SCS at rates agreed upon under item I.A.



- C. Intent to Cooperate - It is the intent of the SCS to fulfill its obligations under this agreement. However, commitment cannot be made beyond the period for which funds have been appropriated by Congress. In the event funds from which the SCS may fulfill its obligations are not appropriated, the agreement will automatically terminate. Reimbursement will then be made for work completed that is otherwise eligible for reimbursement prior to the effective date of termination.
- D. The SCS and IGS agree to consult with the Iowa Department of Environmental Quality on the scope and conduct of the sampling program, and the development of the reports provided for under this cooperative agreement.
- E. Employees - IGS's personnel are not to be considered federal employees, and are not entitled to any federal benefits such as retirement, leave, etc.
- F. Modification - This agreement may be modified by amendment duly executed by authorized officials of the IGS and the SCS provided such modification does not extend the agreement beyond the close of the fiscal year in which the work is completed.
- G. Officials Not to Benefit - No member of or delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.
- H. Audit-Records - The Comptroller General of the United States or his duly authorized representative of the Department of Agriculture or cognizant audit agency shall, until the expiration of three years after final payment under this agreement, have access to and the right to examine any directly pertinent books, documents, papers and records of the IGS or any of its subcontractors engaged in the performance of or involving any transactions related to this agreement.
- I. That all information obtained under the terms of this agreement is public property and will be needed by each of the parties in performance of its responsibilities.

IN WITNESS WHEREOF, the IGS and the SCS have executed this agreement as of the date first above-written.

THE IOWA GEOLOGICAL SURVEY

By Donald L. Rock
State Geologist

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE

By William J. Bruno
State Conservationist

March 1, 1900

My dear Mr. Brewster,

I have just received your letter of the 28th inst. and am glad to hear from you. I am well and hope these few lines will find you the same. I have been very busy lately with my work, but I have managed to find some time to write you. I am sure you will be interested to hear that I have just completed a new book on the life history of the American Cuckoo. It is a very interesting and important work, and I hope it will be of great value to you. I have also been working on a new paper on the habits of the American Cuckoo, and I am sure you will be interested to hear that I have discovered some very interesting facts about its habits. I am sure you will be interested to hear that I have just discovered a new species of the American Cuckoo. It is a very interesting and important discovery, and I hope it will be of great value to you. I am sure you will be interested to hear that I have just discovered a new species of the American Cuckoo. It is a very interesting and important discovery, and I hope it will be of great value to you.

Very truly yours,
J. S. Silliman

Received March 1, 1900

DOCUMENTATION OF COOPERATIVE EFFORTS

			IGS Costs Reimbursed by SCS	IGS Costs Absorbed	SCS Costs Absorbed	PROJECT TOTAL
Salary			\$18,690	\$15,750	\$19,500	\$53,940
	<u>SCS</u>	<u>IGS</u>				
Technical assistance	150	376 mandays				
Computer analysis & programming		50 mandays				
Illustrating		25 mandays				
Travel						
Per diem	68 days @ \$32.00		2,170	-	-	2,170
Mileage	3455 mi. @ \$.22		760	-	-	760
Data processing	159 hrs @ \$65.00		6,900	3,435	-	10,335
Supplies (dye-tracing, photo duplication, drafting)			1,480	-	-	1,480
Administrative Support (Secretarial, office, vehicles)			-	3,680	-	3,680
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			\$30,000	\$22,865 (32%)	\$19,500	\$72,365

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